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## 1 Routine/Function Prologues

### 1.1 Fortran: Module Interface grid\_module.F90 (Source File: grid\_module.F90)

LIS non-model-specific grid variables only.

FORCING() ARRAY:

1. T 2m Temperature interpolated to 2 metres [K]
2. q 2m Instantaneous specific humidity interpolated to 2 metres[kg/kg]
3. radswg Downward shortwave flux at the ground [W/m<sup>2</sup>]
4. lwgdwn Downward longwave radiation at the ground [W/m<sup>2</sup>]
5. u 10m Instantaneous zonal wind interpolated to 10 metres [m/s]
6. v 10m Instantaneous meridional wind interpolated to 10 metres[m/s]
7. ps Instantaneous Surface Pressure [Pa]
8. preacc Total precipitation [mm/s]
9. precon Convective precipitation [mm/s]
10. albedo Surface albedo (0-1)

REVISION HISTORY:

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15 Oct 1999: Paul Houser; Initial code
11 Apr 2000: Brian Cosgrove; Added Forcing Mask variables
23 Feb 2001: Urszula Jambor; Added GEOS & GDAS forcing variables
27 Feb 2001: Brian Cosgrove; Added Catchment forcing data variables
23 Mar 2001: Jon Radakovich; Added variables for PSAS assimilation
04 Sep 2001: Brian Cosgrove; Added variabes for humidity, precip,par
              brightness temp,precip mask, removed awips2lis and
              pinker2lis variables, GRIB interp. package used now
15 Oct 2001: Jesse Meng; Revised doc block with forcing array definition
15 Oct 2001: Jesse Meng; Added oblwdatal and oblwdatal2
14 Nov 2002: Sujay Kumar; Optimized version of grid_module

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INTERFACE:

```

module grid_module
  implicit none
  public griddec

```

ARGUMENTS:

```

type griddec
  real    :: lat          !latitude of grid point
  real    :: lon          !longitude of grid point
  real    :: forcing(10)   !interpolated LIS forcing array
  real    :: fgrd(13)     !fraction of vegetation class in grid
end type griddec

```